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**Cerpok**

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(54) **BALL GAME APPARATUS AND METHOD**

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6, 2009, now Pat. No. 7,935,010.

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**A63B 63/00** (2006.01)

**A63B 69/00** (2006.01)

**A63B 71/02** (2006.01)

(52) **U.S. Cl.**

CPC ..... **A63B 67/002** (2013.01); **A63B 63/004**  
(2013.01); **A63B 69/0097** (2013.01); **A63B**  
**2071/024** (2013.01); **A63B 2071/026** (2013.01);  
**A63B 2210/50** (2013.01)

(58) **Field of Classification Search**

USPC ..... 273/393, 398–402, 336, 348, 395, 396;  
473/476–478, 465–473, 434, 435

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

2,430,681 A \* 11/1947 Johnson ..... 473/470  
2,520,392 A \* 8/1950 Flenghi ..... 273/393  
3,306,615 A \* 2/1967 Tack ..... 273/400

3,567,222 A \* 3/1971 Robins ..... 473/435  
3,734,503 A \* 5/1973 Breslow ..... 273/393  
3,761,087 A \* 9/1973 Meyer ..... 473/470  
3,794,325 A \* 2/1974 Stender ..... 273/399  
3,825,257 A \* 7/1974 Palmer ..... 473/435  
3,862,758 A \* 1/1975 McLamb ..... 273/393  
3,892,407 A \* 7/1975 Higgins ..... 273/336  
4,130,281 A \* 12/1978 Leber et al. .... 273/336  
4,133,531 A \* 1/1979 Arteaga et al. .... 273/395  
4,330,130 A \* 5/1982 Carr ..... 273/393  
4,378,944 A \* 4/1983 Johnston ..... 273/393  
4,744,567 A \* 5/1988 Kochmanski et al. .... 473/470  
5,407,210 A \* 4/1995 Canning ..... 273/348  
6,811,501 B2 \* 11/2004 Kuzia et al. .... 473/478  
2005/0104283 A1 \* 5/2005 Hodgeman ..... 273/108  
2007/0117659 A1 \* 5/2007 Best et al. .... 473/474  
2008/0224409 A1 \* 9/2008 Marshall et al. .... 273/348  
2010/0120559 A1 \* 5/2010 Biederman et al. .... 473/470

\* cited by examiner

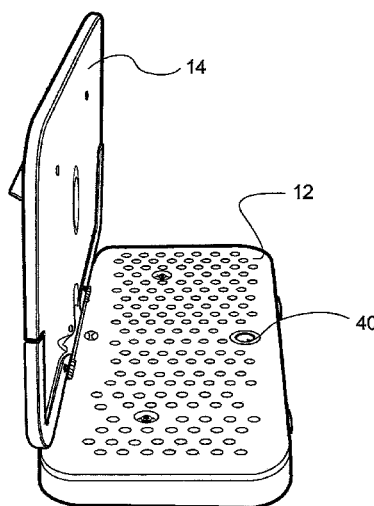
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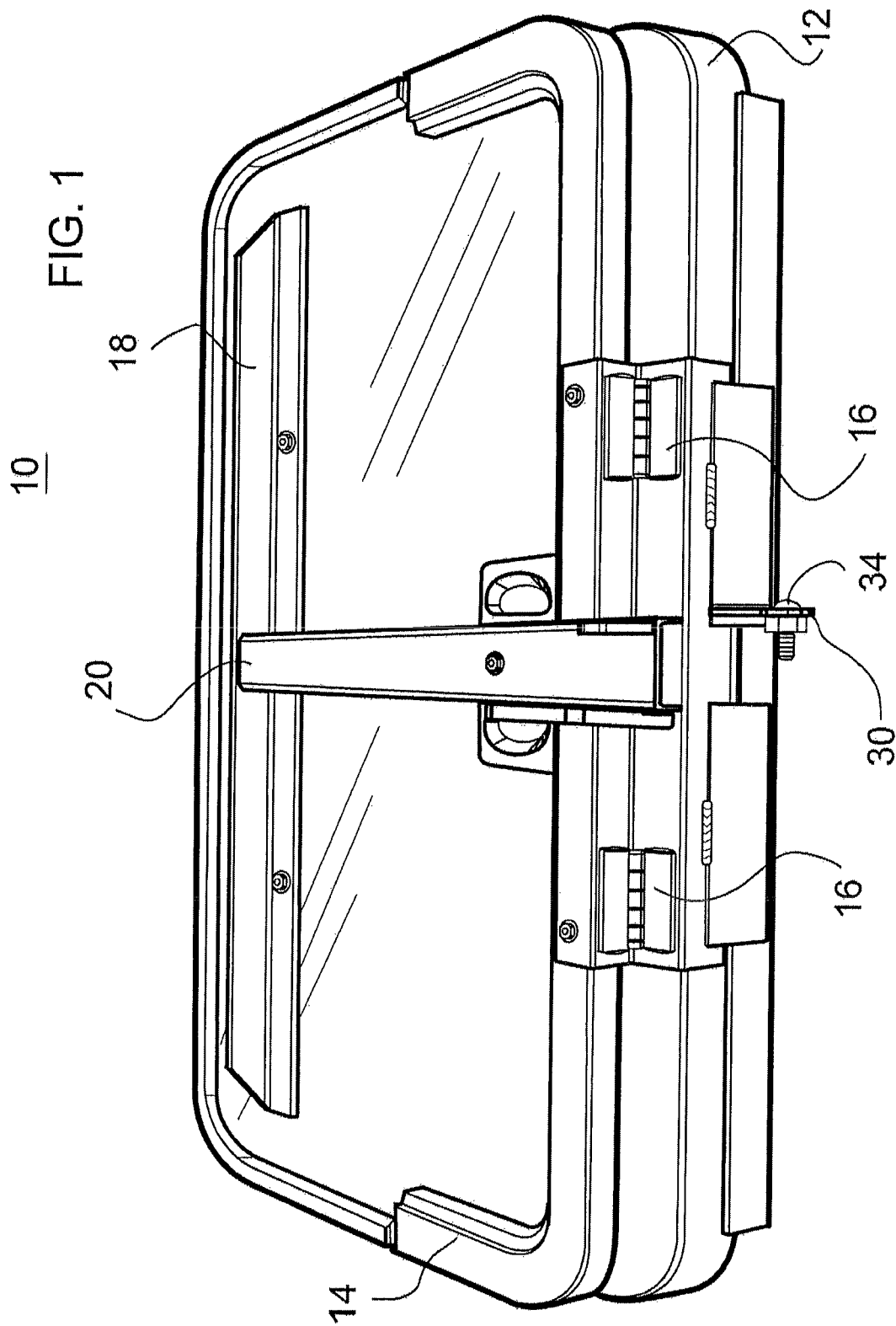
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(57) **ABSTRACT**

A back-stop for a team sport includes a generally flat, rectangular shaped base having a positioning element on an upper surface for receiving a goal pin, and a backboard. The backboard is attached to a rear edge of the base and is movable between a stored position, lying flat on the base, and an operative position, extending upwardly at approximately a 90° angle. A free-standing elongated goal pin is positionable on the positioning element and has an upper end extending approximately the height of the backstop. The goal pin has a weighted element at a bottom end for biasing the goal pin in an upstanding position.

**4 Claims, 7 Drawing Sheets**





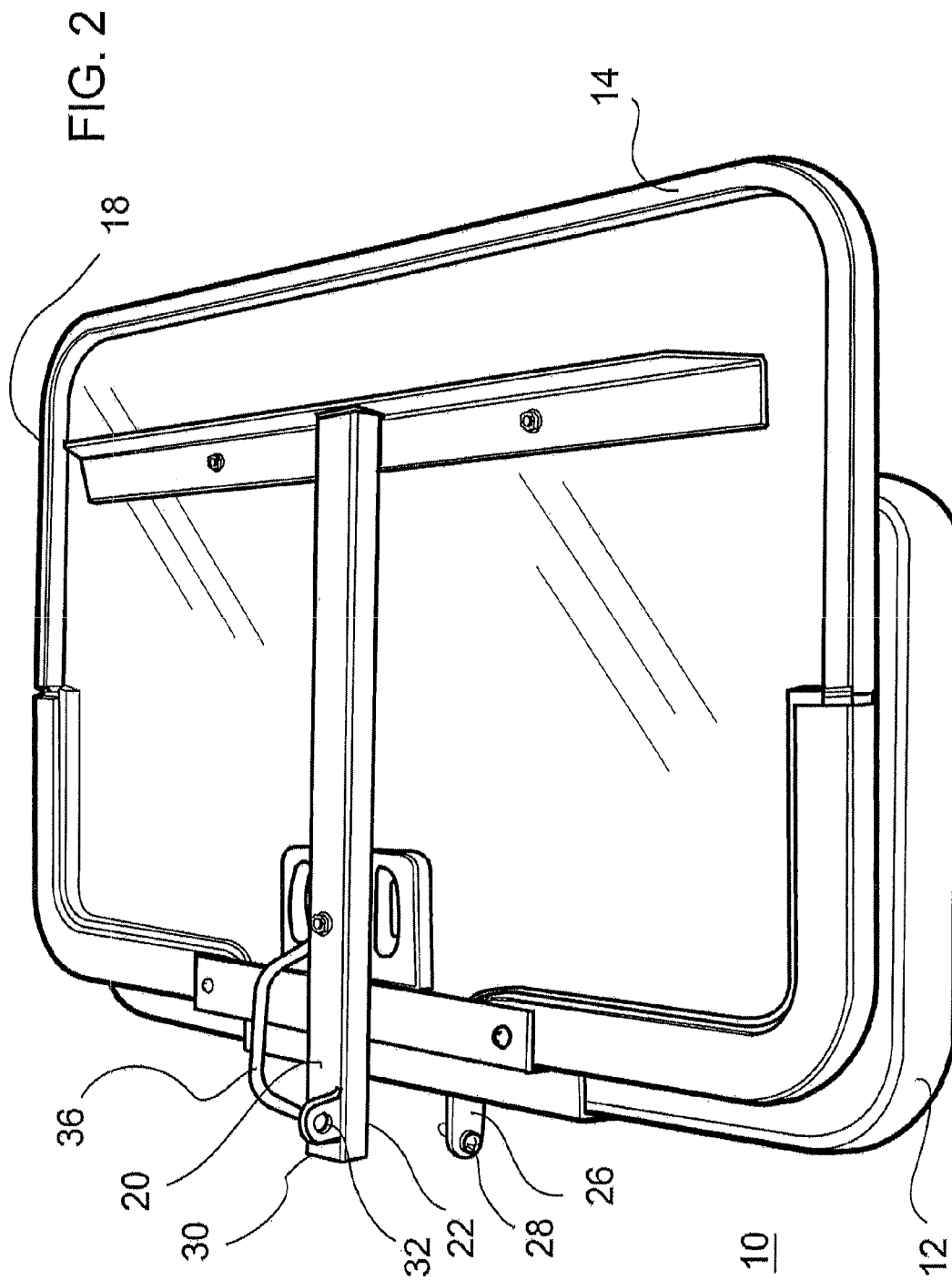


FIG. 3

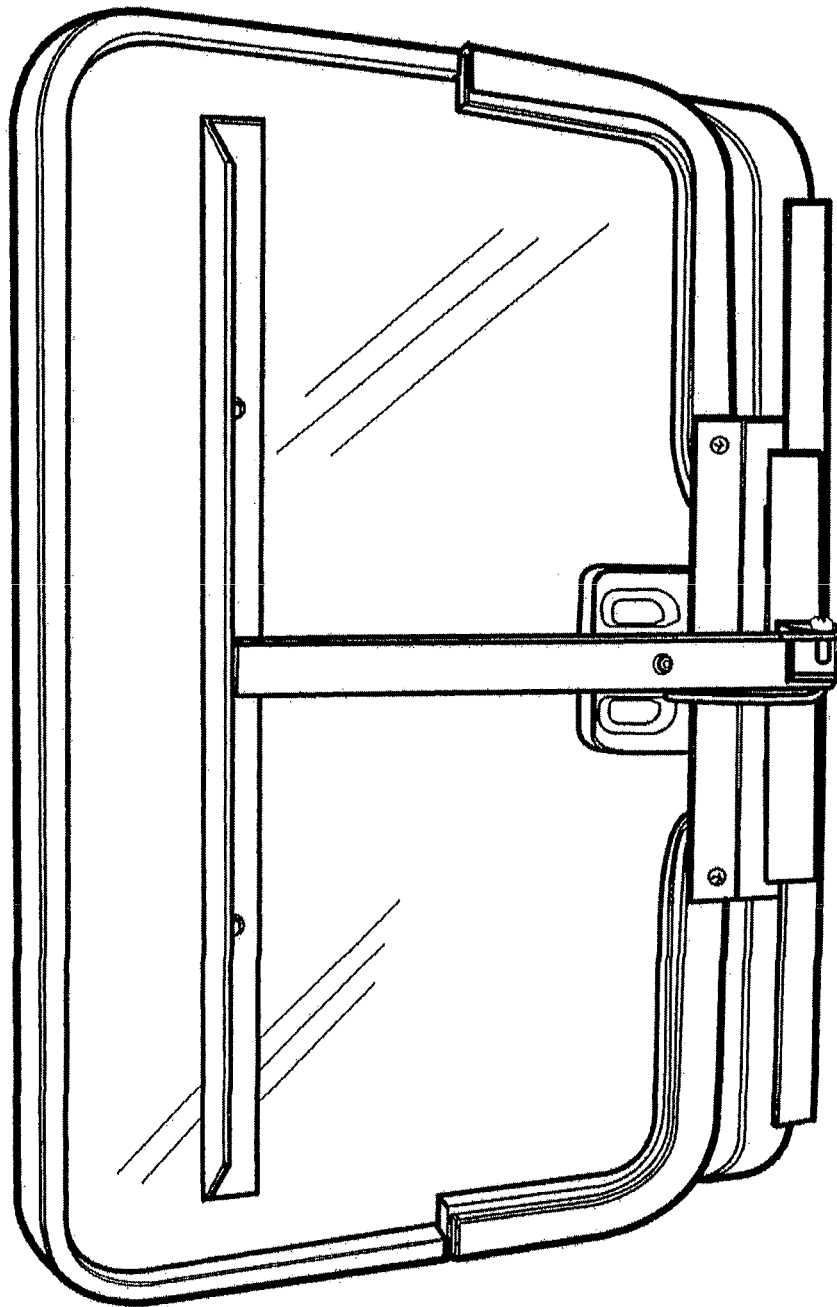
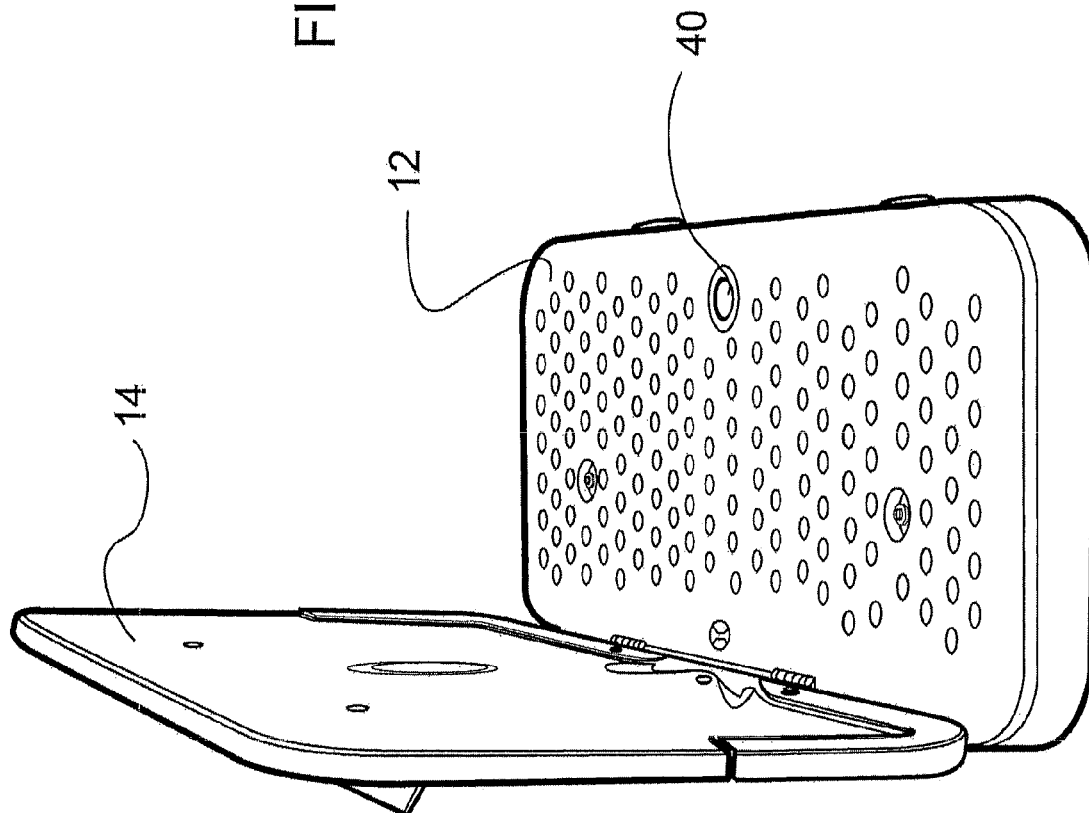


FIG. 4



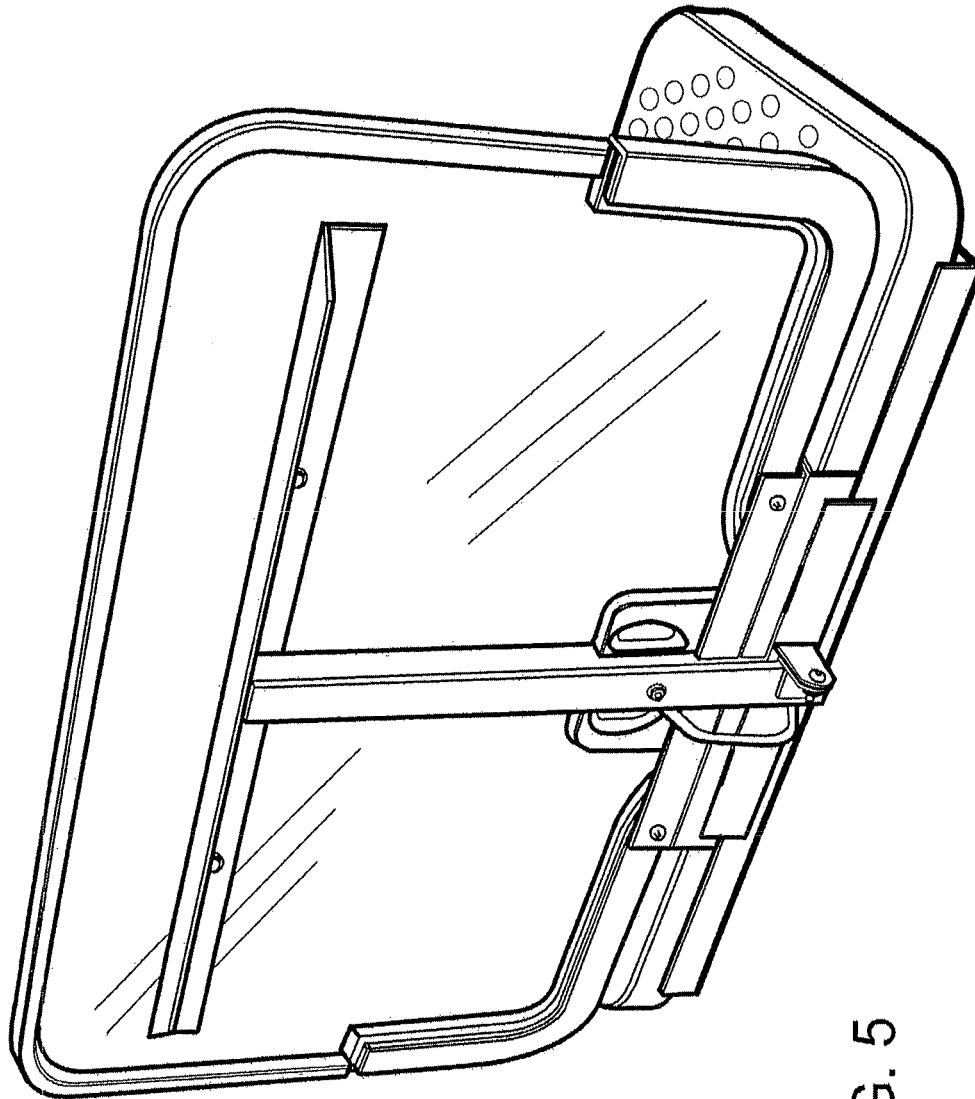


FIG. 5

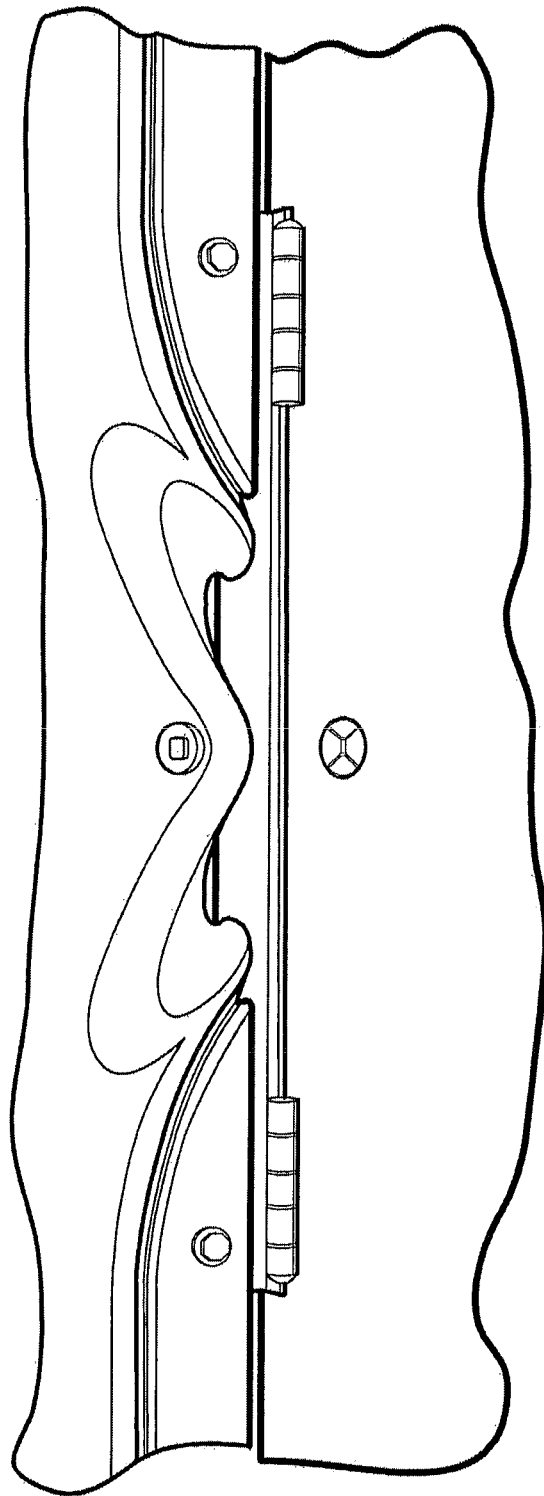
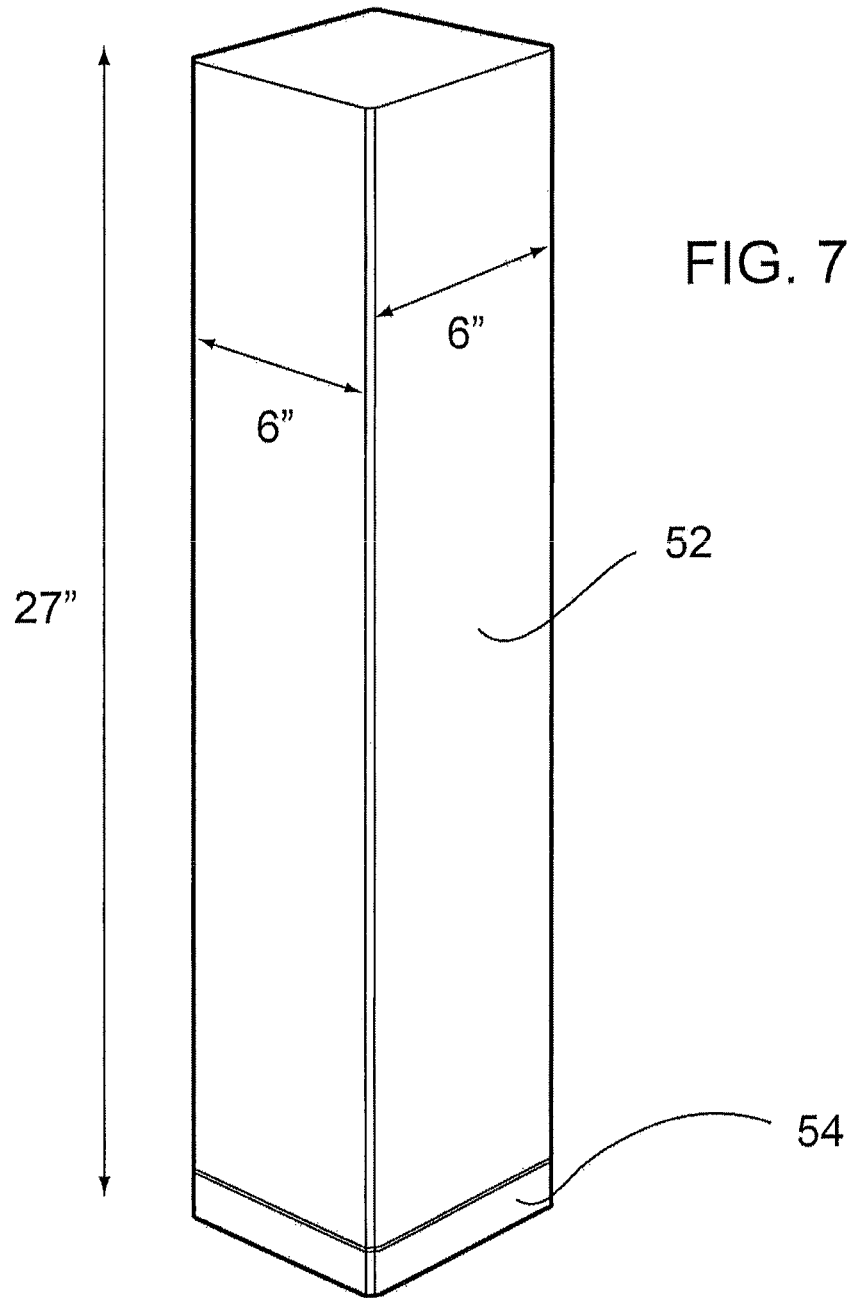


FIG. 6





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**BALL GAME APPARATUS AND METHOD****CROSS-REFERENCE TO RELATED APPLICATIONS**

This application is a divisional application of currently U.S. application Ser. No. 12/419,023, filed 6 Apr. 2009 now U.S. Pat. No. 7,935,010.

**FIELD OF THE INVENTION**

This invention generally relates to a game or team sport, and equipment for playing the game or team sport.

**BACKGROUND OF THE INVENTION**

Team sports are extremely popular and there are a great number of them throughout the world. Some well known team sports include baseball, softball, cricket, basketball, hockey, soccer, etc. Each prior art team sport has specific and well established rules and specific equipment to be used. Generally, the well known team sports presently being played are so completely regulated that it is difficult for unrecognized individuals to get together and to form teams or play the sports to simply have fun.

It would be highly advantageous, therefore, to define a new team sport and to define new equipment for playing the new team sport.

Accordingly, it is an object of the present invention to provide a new and improved team sport.

Another object of the invention is to provide a new and improved team sport and new and improved equipment for playing the new team sport.

**SUMMARY OF THE INVENTION**

Briefly, to achieve the desired objects of the present invention in accordance with a preferred embodiment, provided is a method of playing a team sport in which two teams attempt to score goals at opposite ends of a court, the method includes providing a court and rules determining the layout of the court, the length of time for a game and various plays during the game, and penalties. The game is started on the court with a game ball and two teams and either of the two teams upon gaining possession of the game ball becomes the possessing team and the other of the two teams becomes the opposing team. The possessing team must pass the ball between the possessing team's players a minimum number of times before an attempted shot on the opposing team's goal is made, and any player on the possessing team must not possess the ball for a time greater than a time specified by the rules. In the preferred embodiment, the possessing team must pass the ball between the possessing team's players a minimum of three times and any player on the possessing team must not possess the ball for a time greater than three seconds.

The desired objects of the present invention are further realized in accordance with a specific embodiment of game apparatus including a generally flat, rectangularly shaped base with an upper surface, the base including a positioning element on the upper surface for receiving a goal pin thereon, a backboard hingedly attached to a rear edge of the base so as to have a stored position in which the backboard lies flat on the upper surface of the base and an operative or active position in which the backboard extends upwardly from the rear edge of base at approximately a 90°, and a locking mechanism connected between the base and the backboard in the

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operative or active position and formed to lock the base and backboard in the operative or active position.

The specific embodiment of game apparatus further includes a free-standing elongated goal pin with a bottom end constructed to be positioned on the positioning element on the upper surface of the base and an upper end extending approximately the height of the backstop above the upper surface of the base, and the goal pin having a weighted element at the bottom end for biasing the goal pin in an upstanding position.

**BRIEF DESCRIPTION OF THE DRAWINGS**

The foregoing and further and more specific objects and advantages of the instant invention will become readily apparent to those skilled in the art from the following detailed description of a preferred embodiment thereof taken in conjunction with the drawings, in which:

FIGS. 1 and 2 are rear and top perspective views, respectively, of a back-stop in accordance with the present invention, in the stored position;

FIGS. 3, 4, and 5 are rear, top side, and top rear perspective views, respectively, of the back-stop of FIG. 1 in the open or operating position;

FIG. 6 is an enlarged top perspective view of a portion of the back-stop of FIG. 1; and

FIG. 7 is a view in perspective of a Pin in accordance with the present invention.

**DETAILED DESCRIPTION OF A PREFERRED EMBODIMENT**

Turning now to the drawings, attention is first directed to FIGS. 1 and 2 which illustrate an embodiment of a back-stop 10 for the sport of the present invention, in a folded or stored position. Back-stop 10 includes a generally flat, rectangularly shaped base 12 and a backboard 14. Backboard 14 is hingedly attached to a rear edge of base 12 by hinges 16 so as to have a stored position in which backboard 14 lies flat on the upper surface of base 12, as illustrated in FIGS. 1 and 2 and an operative or active position in which backboard 14 extends upwardly from the rear edge of base 12 at approximately a 90° angle, as illustrated in FIGS. 3, 4, and 5.

In this specific embodiment, a metal angle 18, such as angel iron or an aluminum angel, extends horizontally across the rear surface of backboard 14 a short distance below the upper edge to add strength to backboard 14. An elongated brace 20 is attached to the rear surface of backboard 14 and extends downwardly from engagement with metal angle 18 to a short distance past the lower edge of backboard 14. The lower portion, designated 22, of brace 20 that extends beyond the lower or rear edge of backboard 14 is sufficiently long to extend substantially the thickness of base 12, i.e. the lower end of portion 22 extends to just short of a supporting surface (e.g. the ground, etc.) when backboard 14 is in the operative or active position.

An operative or active position locking mechanism is connectable between base 12 and backboard 14 to lock backboard 14 in the operative or active position. In the present embodiment to perform this function an outwardly or rearwardly extending flange 26 is affixed to the rear surface of base 12. Flange 26 has a hole 28 therethrough adjacent the rear end thereof. An outwardly extending, mating flange 30 is affixed to the upper or rear surface of brace 20 and a hole 32 therethrough is positioned to be aligned with hole 28 when backstop 14 is in the operative or active position. A bolt, pin, or the like, designated 34, can then be inserted through aligned holes 28 and 32 to lock backstop 14 in the operative or

active position. Also, a carrying handle **36** is affixed to the rear surface of brace **20** so that backstop **10** can be easily transported to any desired location.

The front surface of backboard **14** is substantially flat so that a ball (used in play) will bounce off the surface without being misdirected by irregularities. Also, the back surface, in this embodiment, includes a type of "waffle weave" to increase the strength while substantially reducing the overall weight. The upper surface of base **12** includes a positioning element **40** located approximately centrally along the longitudinal axis (i.e. parallel to the front and rear edges) and set back a short distance from the front edge. Positioning element **40** can simply be a spot provided to aid in properly positioning a goal pin **50** (described in more detail below) and/or it can include some electronics coupled to an indicator either in backstop **14** or at some remote location. The indicator can, for example, indicate when goal pin **50** has been moved from positioning element **40**.

In the preferred embodiment, base **12** of back-stop **10** is approximately 42 inches wide (i.e. along the longitudinal axis or along each of the front and rear edges). Also, base **12** is approximately 21 inches deep (i.e. between the front and rear edges) and approximately 4 inches high (i.e. from the lower surface to the upper surface). Backboard **14** of back-stop **10** is 42 inches wide and 27 inches high in the operative or active position. Also, backboard **14** is approximately 1.5 inches deep to provide sufficient strength without producing too much weight. Back-stop **10** can be formed of blow molded, roto-molded, and the like, elements (base **12**, backboard **14**) that are hollow. Thus, they can be readily transported and stored due to light weight, but when water or sand ballast is added to the hollow elements, are firmly established for the game.

Turning now to FIG. 7, goal pin **50** is illustrated in detail. For ease in understanding and to assure an association of goal pin **50** with the ball game. In this specific embodiment goal pin **50** includes a body **52** and a fixedly attached base **54**. Body **52** is an elongated, element with a generally rectangularly shaped cross-section. Goal pin **50** is a free-standing goal pin that is it simply rests on its base with no support other than the pin construction. In the preferred embodiment goal pin **50** is approximately 27 inches long (or high in the upright position) and is approximately 6 inches wide and deep (i.e. six inches on each side). Further, body **52** of goal pin **50** is formed of a light but strong foam material, generally with a covering to add strength. The covering may be some strong material such as leather, plastic, etc. Base **52** may be covered with the same material and may, for example, simply be a compartment formed in the material at the lower end of body **52**. Base **52** is six inches on each side and sufficiently deep to contain approximately one pound of sand or other weighting material.

The ball game is played on a flat surface that is preferably smooth, such as packed dirt, concrete, macadam ("black-top"), or even grass. A court is marked out and is 30 feet wide by 60 feet long. A center line is marked 30 feet from either end and extends across the width of the court. A back-stop **10** is placed, one each, at each end of the court approximately midway between the sides of the court. A goal pin **50** is placed on positioning element **40** of each back-stop **10**. The back of back-stop **10** and the end of the court define a goal line. A Goalie Box, six feet wide and 6 feet deep is clearly marked at each end of the court and each one includes back-stop **10** situated at the rear end and approximately centrally located relative to the outer edges. A No-Shot Zone is clearly marked and extends six feet forward from the goal line and the width of the court. A Tip-Off Circle is clearly marked at center court

(extending concentrically around a center point of the court) and is approximately 10 feet in diameter.

#### Ball Game Rules

As will be understood, the rules of the ball game as set forth below are considered the Official Rules and may vary slightly in accordance with specific applications and instances. For purposes of consistency, the court dimensions and layout specified above is considered section **1** of the rules so that the rules as specified below are designated sections **2** through **5** and will be numbered accordingly for convenience of reference. It will be understood by those of ordinary skill that the numbers, sections, and paragraphs are only added for convenience in use and later reference and otherwise are not a part of this invention.

2.1 Ideally, three officials will call each game; however the number is optional and can vary from none to more than three is desired. The three officials include a Referee, a Timer, and a Judge. The Referee will call warnings, penalties, and goals and have the final say in disputes. The Timer will time ball possession and consecutive passes. The Judge will keep track of the time for game clock, time-outs, and penalties.

#### Section 2

2.2 The game, initially, and each subsequent period begin with a tip-off. Only one player from each team may occupy the Tip-Off Circle during the tip-off.

2.3 The game consists of three equal periods and each period lasts twenty minutes with a five minute intermission between periods.

2.4 Each team is allowed three 30 second time-outs per period, and must be in possession of the ball to call a time-out. The Referee may call time-out for penalties, player warnings, and injuries. The Judge will stop the game clock for time-out durations unless playing with a "running clock".

2.5 One point is awarded for knocking down the opposing team's goal pin, when no infraction is committed.

2.6 The team in possession of the ball must complete at least three consecutive passes before attempting a shot.

2.7 No player may be in possession of the ball for more than three seconds before attempting a pass.

2.8 A player's foot may not land into the No-Shot Zone before shooting. A player receiving the ball while occupying the No-Shot Zone must exit the Zone completely before attempting a shot on goal. A goal made while the player taking a shot is in the No-Shot Zone will be dis-allowed.

2.9 No player, other than a team's designated goalie may occupy the Goalie Box, nor attempt to retrieve a ball that lies within the box. Breaking the 'plane' of the Goalie Box is considered an infraction. The Referee must be notified, and acknowledge, before switching goalies.

2.10 When play is started from the Goalie Box, the three second time begins with the Referee's whistle. The goalie is not allowed to dribble or otherwise attempt to restart the three second time while in the Goalie Box.

2.11 A player may re-start the team's three second time by intentionally dropping the ball (dribbling) or throwing the ball up into the air (so long as the ball achieves a height higher than the player's own head). However, this also re-starts the three pass rule. Bouncing the ball off of another player restarts the three second time without restarting the three pass rule.

#### Section 3

3.1 Play will be stopped and a change of possession will be called by either the Referee or the Timer in the following instances:

3.2 A defensive player takes, or knocks free, a ball already in possession of the opposing team. The opposing team is allowed to maintain possession. A delayed whistle is used!

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Play is not stopped if the opposing team immediately regains possession of the ball. If play is stopped, the goalie must start play from the Goal Box.

3.3 A warning or penalty is called. A delayed whistle is used! A stoppage in play caused by a warning or penalty occurs after the offending team takes control of the ball. An offensive player (not the goalie) on the non-offending team takes possession of the ball at center court.

3.4 The ball is deemed to be "out of bounds" by the Referee or Timer. Play starts in the Goalie Box.

3.5 A goal has been scored. Play starts in the Goalie Box.

3.6 A center court tip off will be called when play is stopped due to opposing players having equal possession of the ball.

3.7 Opposing goalie takes possession of the ball when a shot is blocked out of bounds. Play starts in the goalie box.

#### Section 4

4.1 When a team is penalized, they must play "short handed" for the duration of the penalty or until the stated number of "power play" goals are scored, whichever is shorter.

4.2 The Referee may choose to give a warning to a player for entering the Goalie Box (Goalie Interference), incidental contact, or pin-tipping. Any player receiving three warnings in a single game will be issued a mandatory Minor Penalty upon the next infraction.

4.3 A Minor Penalty is two minutes in duration and ends earlier if the opposing team scores a goal during the penalty.

4.4 A Major Penalty is five minutes in duration and ends earlier if the opposing team scores two goals during the penalty.

4.5 A Misconduct Penalty is ten minutes in duration and ends earlier if the opposing team scores four goals during the penalty.

4.6 A Game Misconduct Penalty is ten minutes in duration, to be served by an alternate team member with the offending team member ejected from the game.

4.7 The player upon whom the infraction occurred is allowed a shot on goal defended by only the goalie.

4.8 During a penalty shot. All players must exit the field. The player awarded the penalty shot starts at mid-court. The Referee takes a position half way between mid-court and the Goal Line. The player has three seconds from the time he passes the Referee to take his shot. No-Shot Zone restrictions apply. After the shot, the defending goalie takes possession of the ball in his Goalie Box.

4.9 A penalty shot will be made mandatory when any player who has committed more than three Minor Penalties or two Major Penalties in a single game receives subsequent penalties. After three penalty shots have been levied against a single player, said player will receive a Game Misconduct Penalty upon the fourth infraction. Any player receiving a second Misconduct Penalty in any one game will immediately receive a Game Misconduct Penalty.

4.10 A penalty shot is awarded, at the Referee's discretion, when a goalie knocks over his own pin (Pin Tipping) while facing an unobstructed shot or "break-away" even if incidental contact causes the pin to fall over.

#### Section 5

5.1 Players on both teams have an equal right to a loose ball. Incidental contact is allowed, and is called "non-incidental" at the Referee's discretion. No player may use their body to attempt to knock the ball loose from another player.

5.2 A player in possession of the ball has the right to move with the ball in any direction, however, a defensive player also has the right to remain in their position. If contact occurs

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between two players due to exercise of these rights, it left to the Referee's discretion as to whether or not contact was incidental.

5.3 Minor Penalties will be issued for the following infractions:

Non-incidental contact:

Elbowing an opposing player;

Goalie interference;

Excessive incidental contact;

Holding an opposing player;

Tipping a pin;

Tripping an opposing player; and

Unsportsmanlike conduct.

5.4 Major Penalties will be issued for the following infractions:

Kicking an opposing player;

Excessive non-incidental contact; and

Unsportsmanlike conduct by a coach.

5.5 Misconduct Penalties will be issued for the following infractions:

Gross unsportsmanlike conduct by a coach or player.

5.6 Game Misconduct will be issued for the following infractions:

Intent to injure another player: and

Physical contact with an Official.

The rules listed above are intended to make the ball game fair, continuous and injury free. Further, a prime purpose of the ball game is to provide a sport in which virtually anyone can participate and which will provide the participants with exercise and fun. Thus, a new and improved team sport and new and improved equipment for playing the new team sport have been disclosed.

Various changes and modifications to the embodiment herein chosen for purposes of illustration will readily occur to those skilled in the art. To the extent that such modifications and variations do not depart from the spirit of the invention, they are intended to be included within the scope thereof, which is assessed only by a fair interpretation of the following claims.

Having fully described the invention in such clear and concise terms as to enable those skilled in the art to understand and practice the same, the invention claimed is:

The invention claimed is:

1. A back-stop for a team sport comprising:

a generally flat, rectangularly shaped base with a lower surface configured to be supported at ground level and an upper surface, the base including a positioning element on the upper surface for receiving a goal pin thereon;

a backboard attached to a rear edge of the base so as to have a stored position in which the backboard lies flat on the upper surface of the base and an operative or active position in which the backboard extends upwardly from the rear edge of base at approximately a 90°;

a mechanism connected between the base and the backboard to maintain the base and backboard in the operative or active position; and

a free-standing elongated goal pin with a bottom end constructed to be positioned on the positioning element on the upper surface of the base and an upper end extending approximately the height of the backstop above the upper surface of the base, and the goal pin having a weighted element at the bottom end for biasing the goal pin in an upstanding position.

2. A back-stop for a team sport as claimed in claim 1 wherein the free-standing elongated goal pin has a generally rectangular cross-section, and the weighted element is approximately one pound.

3. A back-stop for a team sport as claimed in claim 2 wherein the free-standing elongated goal pin is approximately six inches on each side of the rectangular cross-section and is approximately 27 inches high.

4. A back-stop for a team sport comprising:

a generally flat, rectangularly shaped base with a lower surface configured to be supported at ground level and an upper surface, the base including a positioning element on the upper surface for receiving a goal pin thereon;

a backboard attached to a rear edge of the base so as to be upstanding with respect thereto in an operative or active position; and

a free-standing elongated goal pin with a bottom end constructed to be positioned on the positioning element on the upper surface of the base and an upper end extending from the upper surface of the base, and the goal pin having a weighted element at the bottom end for biasing the goal pin in an upstanding position.

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